

SEQUENCE LISTING



<110> Prayaga, Sudhirdas K
Taupier Jr, Raymond J
Bandaru, Raj

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RECEPTORS, AND FIBROMODULIN, AND POLYNUCLEOTIDES
ENCODING SAME

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<141> 2001-10-09

<150> 60/159,805

<151> 1999-10-15

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 Lys Asp Ile Thr Ser Glu Met Asp Glu Cys Phe Glu Thr Gly Pro Gln
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 Asp Ser Ile Arg Ile Thr Trp Lys Ala Thr Leu Pro Ala Ser Ser Phe
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 <223> Description of Artificial Sequence: Ag190 Reverse
 PCR Primer Sequence

<400> 10
 gtggcatcag cacggagtg 19

<210> 11
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Ag087 Forward
 PCR Primer Sequence

 <400> 11
 cgcagtttca ctcgggagat 20

 <210> 12
 <211> 31
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Ag087 Probe
 PCR Primer Sequence

 <400> 12
 cctctaggat ccacatcgag aaaatcatcg g 31

 <210> 13
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Ag087 Reverse
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 <400> 13
 agcagacttc cccggagtct 20

 <210> 14
 <211> 31
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: NOV2 Forward
 PCR Primer Sequence

 <400> 14
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 <210> 15
 <211> 29
 <212> DNA
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<220>
 <223> Description of Artificial Sequence: NOV2 Reverse
 PCR Primer Sequence

<400> 15
 ctcgagggtc ctggtgtcat agcggggcc 29

<210> 16
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: NOV2 S1 PCR
 Primer Sequence

<400> 16
 tacctggagt cggaccgc 18

<210> 17
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: NOV2 S2 PCR
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<400> 17
 gcggtccgac tccaggtta 18

<210> 18
 <211> 19
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<220>
 <223> Description of Artificial Sequence: NOV2 S3 PCR
 Primer Sequence

<400> 18
 cagtgcgtgc ggcactcag 19

<210> 19
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: NOV2 S4 PCR
 Primer Sequence

<400> 19
tgagtgccgc acgcactgg 19

<210> 20
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: NOV2 S5 PCR
Primer Sequence

<400> 20
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<210> 21
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: NOV2 S6 PCR
Primer Sequence

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gcggccacct gggtccag 18

<210> 22
<211> 18
<212> DNA
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<220>
<223> Description of Artificial Sequence: NOV2 S7 PCR
Primer Sequence

<400> 22
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<210> 23
<211> 18
<212> DNA
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<220>
<223> Description of Artificial Sequence: NOV2 S8 PCR
Primer Sequence

<400> 23
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<210> 24

<211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: NOV3 Forward
 PCR Primer Sequence

 <400> 24
 ggatccacca cctgcccctc ggtgtgc 27

 <210> 25
 <211> 35
 <212> DNA
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 <220>
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 PCR Primer Sequence

 <400> 25
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 <210> 26
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 <212> DNA
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 <220>
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 Primer Sequence

 <400> 26
 cgcaccattg ccaggga 18

 <210> 27
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 <400> 27
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 <210> 28
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<223> Description of Artificial Sequence: NOV3 S3 PCR
Primer Sequence

<400> 28
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<210> 29
<211> 21
<212> DNA
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<220>
<223> Description of Artificial Sequence: NOV3 S4 PCR
Primer Sequence

<400> 29
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<210> 30
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Primer Sequence

<400> 30
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<210> 31
<211> 18
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<220>
<223> Description of Artificial Sequence: NOV3 S6 PCR
Primer Sequence

<400> 31
cgtggtggca gaggcgtg 18

<210> 32
<211> 30
<212> DNA
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<220>
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Forward Oligonucleotide Primer Sequence

<400> 32
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<210> 33
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: pSec-V5 His
Reverse Oligonucleotide Primer Sequence

<400> 33
ctcgtcgggc ccctgatcag cgggtttaa c

31

<210> 34
<211> 40
<212> PRT
<213> Homo sapiens

<400> 34
Met Ala Asp Lys Pro Asp Met Gly Glu Ile Ala Ser Phe Asp Lys Ala
1 5 10 15
Lys Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Thr Leu Pro Thr Lys
20 25 30
Glu Thr Ile Glu Gln Glu Lys Arg
35 40

<210> 35
<211> 10
<212> PRT
<213> Homo sapiens

<400> 35
Lys Leu Lys Lys Thr Glu Thr Gln Glu Asn
1 5 10

<210> 36
<211> 38
<212> PRT
<213> Homo sapiens

<400> 36
Ala Asp Lys Pro Asp Met Gly Glu Ile Ala Ser Phe Asp Lys Ala Lys
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Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Thr Leu Pro Thr Lys Glu
20 25 30
Thr Ile Glu Gln Glu Lys
35

<210> 37
 <211> 40
 <212> PRT
 <213> Bos taurus

<400> 37
 Ala Asp Lys Pro Asp Leu Gly Glu Ile Asn Ser Phe Asp Lys Ala Lys
 1 5 10 15
 Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Thr Leu Pro Thr Lys Glu
 20 25 30
 Thr Ile Glu Gln Glu Lys Gln Ala
 35 40

<210> 38
 <211> 40
 <212> PRT
 <213> Sus scrofa

<400> 38
 Ala Asp Lys Pro Asp Met Gly Glu Ile Asn Ser Phe Asp Lys Ala Lys
 1 5 10 15
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 20 25 30
 Thr Ile Glu Gln Glu Lys Gln Ala
 35 40

<210> 39
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 39
 Ser Asp Lys Pro Asp Met Ala Glu Ile Glu Lys Phe Asp Lys Ser Lys
 1 5 10 15
 Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Pro Leu Pro Ser Lys Glu
 20 25 30
 Thr Ile Glu Gln Glu Lys Gln Ala
 35 40

<210> 40
 <211> 41
 <212> PRT
 <213> Mus musculus

<400> 40
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 1 5 10 15

Lys Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Pro Leu Pro Ser Lys
20 25 30

Glu Thr Ile Glu Gln Glu Lys Gln Ala
35 40

<210> 41

<211> 40

<212> PRT

<213> *Oryctolagus cuniculus*

<400> 41

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Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Pro Leu Pro Ser Lys Glu
20 25 30

Thr Ile Glu Gln Glu Lys Gln Ala
35 40

<210> 42

<211> 39

<212> PRT

<213> *Xenopus laevis*

<400> 42

Ser Asp Lys Pro Asp Met Ala Glu Ile Glu Lys Phe Asp Lys Ala Lys
1 5 10 15

Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Pro Leu Pro Ser Lys Glu
20 25 30

Thr Ile Glu Gln Glu Lys Gln
35

<210> 43

<211> 40

<212> PRT

<213> *Homo sapiens*

<400> 43

Ser Asp Lys Pro Gly Met Ala Glu Ile Glu Lys Phe Asp Lys Ser Lys
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Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Pro Leu Ser Ser Lys Glu
20 25 30

Thr Ile Glu Gln Glu Arg Gln Ala
35 40

<210> 44

<211> 40

<212> PRT
<213> Oncorhynchus mykiss

<400> 44
Ser Asp Lys Pro Asn Leu Glu Glu Val Ala Ser Phe Asp Lys Thr Lys
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Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Pro Leu Pro Thr Lys Glu
20 25 30
Thr Ile Glu Gln Glu Lys Gln Ala
35 40

<210> 45
<211> 40
<212> PRT
<213> Oncorhynchus mykiss

<400> 45
Ser Asp Lys Pro Asp Leu Ala Glu Val Ser Asn Phe Asp Lys Thr Lys
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20 25 30
Thr Ile Glu Gln Glu Lys Gln Ala
35 40

<210> 46
<211> 40
<212> PRT
<213> Lateolabrax japonicus

<400> 46
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Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Pro Leu Pro Ser Lys Glu
20 25 30
Thr Ile Glu Gln Glu Lys Ala Ala
35 40

<210> 47
<211> 39
<212> PRT
<213> Rattus norvegicus

<400> 47
Met Ser Asp Lys Pro Asp Leu Ser Glu Val Glu Thr Phe Asp Lys Ser
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Lys Leu Lys Lys Thr Asn Thr Glu Glu Lys Asn Thr Leu Pro Ser Lys
20 25 30

Glu Thr Ile Gln Gln Glu Lys
35

<210> 48
<211> 38
<212> PRT
<213> Homo sapiens

<400> 48
Ser Asp Lys Pro Asp Leu Ser Glu Val Glu Lys Phe Asp Arg Ser Lys
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Leu Lys Lys Thr Asn Thr Glu Glu Lys Asn Thr Leu Pro Ser Lys Glu
20 25 30

Thr Ile Gln Gln Glu Lys
35

<210> 49
<211> 35
<212> PRT
<213> Drosophila melanogaster

<400> 49
Ile Ala Gly Ile Glu Asn Phe Asp Ala Lys Lys Leu Lys His Thr Glu
1 5 10 15
Thr Asn Glu Lys Asn Val Leu Pro Thr Lys Glu Val Ile Glu Ala Glu
20 25 30

Lys Gln Ala
35

<210> 50
<211> 31
<212> PRT
<213> Drosophila melanogaster

<400> 50
Gly Ile Thr Ala Phe Asn Gln Asn Asn Leu Lys His Thr Glu Thr Asn
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Glu Lys Asn Pro Leu Pro Asp Lys Glu Ala Ile Glu Gln Glu Lys
20 25 30

<210> 51
<211> 38
<212> PRT
<213> Homo sapiens

<400> 51
Ala Asp Lys Pro Asp Met Gly Glu Ile Ala Ser Phe Asp Lys Ala Lys

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Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Thr Leu Pro Thr Lys Glu	20	25	30
Thr Ile Glu Gln Glu Lys	35		
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<211> 991			
<212> PRT			
<213> Mus musculus			
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Ala Ala Ala Ala Ala Thr Cys Val Ser Ala Gly Arg Gly Glu Val Asn	20	25	30
Leu Leu Asp Thr Ser Thr Ile His Gly Asp Trp Gly Trp Leu Thr Tyr	35	40	45
Pro Ala His Gly Trp Asp Ser Ile Asn Glu Val Asp Glu Ser Phe Arg	50	55	60
Pro Ile His Thr Tyr Gln Val Cys Asn Val Met Ser Pro Asn Gln Asn	65	70	75
Asn Trp Leu Arg Thr Asn Trp Val Pro Arg Asp Gly Ala Arg Arg Val	85	90	95
Tyr Ala Glu Ile Lys Phe Thr Leu Arg Asp Cys Asn Ser Ile Pro Gly	100	105	110
Val Leu Gly Thr Cys Lys Glu Thr Phe Asn Leu His Tyr Leu Glu Ser	115	120	125
Asp Arg Asp Leu Gly Ala Ser Thr Gln Glu Ser Gln Phe Leu Lys Ile	130	135	140
Asp Thr Ile Ala Ala Asp Glu Ser Phe Thr Gly Ala Asp Leu Gly Val	145	150	155
Arg Arg Leu Lys Leu Asn Thr Glu Val Arg Gly Val Gly Pro Leu Ser	165	170	175
Lys Arg Gly Phe Tyr Leu Ala Phe Gln Asp Ile Gly Ala Cys Leu Ala	180	185	190
Ile Leu Ser Leu Arg Ile Tyr Tyr Lys Lys Cys Pro Ala Met Val Arg	195	200	205
Asn Leu Ala Ala Phe Ser Glu Ala Val Thr Gly Ala Asp Ser Ser Ser	210	215	220

Leu Val Glu Val Arg Gly Gln Cys Val Arg His Ser Glu Glu Arg Asp
 225 230 235 240
 Thr Pro Lys Met Tyr Cys Ser Ala Glu Gly Glu Trp Leu Val Pro Ile
 245 250 255
 Gly Lys Cys Val Cys Ser Ala Gly Tyr Glu Glu Arg Arg Asp Ala Cys
 260 265 270
 Met Ala Cys Glu Leu Gly Phe Tyr Lys Ser Ala Pro Gly Asp Gln Leu
 275 280 285
 Cys Ala Arg Cys Pro Pro His Ser His Ser Ala Thr Pro Ala Ala Gln
 290 295 300
 Thr Cys Arg Cys Asp Leu Ser Tyr Tyr Arg Ala Ala Leu Asp Pro Pro
 305 310 315 320
 Ser Ala Ala Cys Thr Arg Pro Pro Ser Ala Pro Val Asn Leu Ile Ser
 325 330 335
 Ser Val Asn Gly Thr Ser Val Thr Leu Glu Trp Ala Pro Pro Leu Asp
 340 345 350
 Pro Gly Gly Arg Ser Asp Ile Thr Tyr Asn Ala Val Cys Arg Arg Cys
 355 360 365
 Pro Trp Ala Leu Ser His Cys Glu Ala Cys Gly Ser Gly Thr Arg Phe
 370 375 380
 Val Pro Gln Gln Thr Ser Leu Ala Gln Ala Ser Leu Leu Val Ala Asn
 385 390 395 400
 Leu Leu Ala His Met Asn Tyr Ser Phe Trp Ile Glu Ala Val Asn Gly
 405 410 415
 Val Ser Asn Leu Ser Pro Glu Pro Arg Ser Ala Ala Val Val Asn Ile
 420 425 430
 Thr Thr Asn Gln Ala Ala Pro Ser Gln Val Val Val Ile Arg Gln Glu
 435 440 445
 Arg Ala Gly Gln Thr Ser Val Ser Leu Leu Trp Gln Glu Pro Glu Gln
 450 455 460
 Pro Asn Gly Ile Ile Leu Glu Tyr Glu Ile Lys Tyr Tyr Glu Lys Asp
 465 470 475 480
 Lys Glu Met Gln Ser Tyr Ser Thr Leu Lys Ala Val Thr Thr Arg Ala
 485 490 495
 Thr Val Ser Gly Leu Lys Pro Gly Thr Arg Tyr Val Phe Gln Val Arg
 500 505 510
 Ala Arg Thr Ser Ala Gly Cys Gly Arg Phe Ser Gln Ala Met Glu Val
 515 520 525

Glu	Thr	Gly	Lys	Pro	Arg	Pro	Arg	Tyr	Asp	Thr	Arg	Thr	Ile	Val	Trp
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Ile	Cys	Leu	Thr	Leu	Ile	Thr	Gly	Leu	Val	Val	Leu	Leu	Leu	Leu	Leu
545					550					555					560
Ile	Cys	Lys	Lys	Arg	His	Cys	Gly	Tyr	Ser	Lys	Ala	Phe	Gln	Asp	Ser
				565					570					575	
Asp	Glu	Glu	Lys	Met	His	Tyr	Gln	Asn	Gly	Gln	Ala	Pro	Pro	Pro	Val
			580					585					590		
Phe	Leu	Pro	Leu	Asn	His	Pro	Pro	Gly	Lys	Phe	Pro	Glu	Thr	Gln	Phe
		595					600					605			
Ser	Ala	Glu	Pro	His	Thr	Tyr	Glu	Glu	Pro	Gly	Arg	Ala	Gly	Arg	Ser
610						615					620				
Phe	Thr	Arg	Glu	Ile	Glu	Ala	Ser	Arg	Ile	His	Ile	Glu	Lys	Ile	Ile
625					630					635					640
Gly	Ser	Gly	Glu	Ser	Gly	Glu	Val	Cys	Tyr	Gly	Arg	Leu	Gln	Val	Pro
				645					650					655	
Gly	Gln	Arg	Asp	Val	Pro	Val	Ala	Ile	Lys	Ala	Leu	Lys	Ala	Gly	Tyr
			660					665					670		
Thr	Glu	Arg	Gln	Arg	Gln	Asp	Phe	Leu	Ser	Glu	Ala	Ala	Ile	Met	Gly
		675					680					685			
Gln	Phe	Asp	His	Pro	Asn	Ile	Ile	Arg	Leu	Glu	Gly	Val	Val	Thr	Arg
690						695					700				
Gly	Arg	Leu	Ala	Met	Ile	Val	Thr	Glu	Tyr	Met	Glu	Asn	Gly	Ser	Leu
705					710					715					720
Asp	Ala	Phe	Leu	Arg	Thr	His	Asp	Gly	Gln	Phe	Thr	Ile	Val	Gln	Leu
				725					730					735	
Val	Gly	Met	Leu	Arg	Gly	Val	Gly	Ala	Gly	Met	Arg	Tyr	Leu	Ser	Asp
			740					745					750		
Leu	Gly	Tyr	Ile	His	Arg	Asp	Leu	Ala	Ala	Arg	Asn	Val	Leu	Val	Asp
		755					760					765			
Gly	Arg	Leu	Val	Cys	Lys	Val	Ser	Asp	Phe	Gly	Leu	Ser	Arg	Ala	Leu
770						775					780				
Glu	Asp	Asp	Pro	Glu	Ala	Ala	Tyr	Thr	Thr	Ala	Gly	Gly	Lys	Ile	Pro
785					790					795					800
Ile	Arg	Trp	Thr	Ala	Pro	Glu	Ala	Ile	Ala	Phe	Arg	Thr	Phe	Ser	Ser
				805					810					815	
Ala	Ser	Asp	Val	Trp	Ser	Phe	Gly	Val	Val	Met	Trp	Glu	Val	Leu	Ala
			820					825					830		

Tyr Gly Glu Arg Pro Tyr Trp Asn Met Thr Asn Gln Asp Val Ile Ser
 835 840 845
 Ser Val Glu Glu Gly Tyr Arg Leu Pro Ala Pro Met Gly Cys Pro Arg
 850 855 860
 Ala Leu His Gln Leu Met Leu Asp Cys Trp His Lys Asp Arg Ala Gln
 865 870 875 880
 Arg Pro Arg Phe Ala His Val Val Ser Val Leu Asp Ala Leu Val His
 885 890 895
 Ser Pro Glu Ser Leu Arg Ala Thr Ala Thr Val Ser Arg Cys Pro Pro
 900 905 910
 Pro Ala Phe Ala Arg Ser Cys Phe Asp Leu Arg Ala Gly Gly Ser Gly
 915 920 925
 Asn Gly Asp Leu Thr Val Gly Asp Trp Leu Asp Ser Ile Arg Met Gly
 930 935 940
 Arg Tyr Arg Asp His Phe Ala Ala Gly Gly Tyr Ser Ser Leu Gly Met
 945 950 955 960
 Val Leu Arg Met Asn Ala Gln Asp Val Arg Ala Leu Gly Ile Thr Leu
 965 970 975
 Met Gly His Gln Lys Lys Ile Leu Gly Ser Ile Gln Thr Met Arg
 980 985 990

<210> 53
 <211> 992
 <212> PRT
 <213> Homo sapiens

<400> 53
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 Ala Ala Ala Ala Ala Ala Thr Cys Val Ser Ala Ala Arg Gly Glu Val
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 Asn Leu Leu Asp Thr Ser Thr Ile His Gly Asp Trp Gly Trp Leu Thr
 35 40 45
 Tyr Pro Ala His Gly Trp Asp Ser Ile Asn Glu Val Asp Glu Ser Phe
 50 55 60
 Gln Pro Ile His Thr Tyr Gln Val Cys Asn Val Met Ser Pro Asn Gln
 65 70 75 80
 Asn Asn Trp Leu Arg Thr Ser Trp Val Pro Arg Asp Gly Ala Arg Arg
 85 90 95
 Val Tyr Ala Glu Ile Lys Phe Thr Leu Arg Asp Cys Asn Ser Met Pro
 100 105 110

Gly Val Leu Gly Thr Cys Lys Glu Thr Phe Asn Leu Tyr Tyr Leu Glu
 115 120 125
 Ser Asp Arg Asp Leu Gly Ala Ser Thr Gln Glu Ser Gln Phe Leu Lys
 130 135 140
 Ile Asp Thr Ile Ala Ala Asp Glu Ser Phe Thr Gly Ala Asp Leu Gly
 145 150 155 160
 Val Arg Arg Leu Lys Leu Asn Thr Glu Val Arg Ser Val Gly Pro Leu
 165 170 175
 Ser Lys Arg Gly Phe Tyr Leu Ala Phe Gln Asp Ile Gly Ala Cys Leu
 180 185 190
 Ala Ile Leu Ser Leu Arg Ile Tyr Tyr Lys Lys Cys Pro Ala Met Val
 195 200 205
 Arg Asn Leu Ala Ala Phe Ser Glu Ala Val Thr Gly Ala Asp Ser Ser
 210 215 220
 Ser Leu Val Glu Val Arg Gly Gln Cys Val Arg His Ser Glu Glu Arg
 225 230 235 240
 Asp Thr Pro Lys Met Tyr Cys Ser Ala Glu Gly Glu Trp Leu Val Pro
 245 250 255
 Ile Gly Lys Cys Val Cys Ser Ala Gly Tyr Glu Glu Arg Arg Asp Ala
 260 265 270
 Cys Val Ala Cys Glu Leu Gly Phe Tyr Lys Ser Ala Pro Gly Asp Gln
 275 280 285
 Leu Cys Ala Arg Cys Pro Pro His Ser His Ser Ala Ala Pro Ala Ala
 290 295 300
 Gln Ala Cys His Cys Asp Leu Ser Tyr Tyr Arg Ala Ala Leu Asp Pro
 305 310 315 320
 Pro Ser Ser Ala Cys Thr Arg Pro Pro Ser Ala Pro Val Asn Leu Ile
 325 330 335
 Ser Ser Val Asn Gly Thr Ser Val Thr Leu Glu Trp Ala Pro Pro Leu
 340 345 350
 Asp Pro Gly Gly Arg Ser Asp Ile Thr Tyr Asn Ala Val Cys Arg Arg
 355 360 365
 Cys Pro Trp Ala Leu Ser Arg Cys Glu Ala Cys Gly Ser Gly Thr Arg
 370 375 380
 Phe Val Pro Gln Gln Thr Ser Leu Val Gln Ala Ser Leu Leu Val Ala
 385 390 395 400
 Asn Leu Leu Ala His Met Asn Tyr Ser Phe Trp Ile Glu Ala Val Asn
 405 410 415

Leu	Asp	Thr	Phe	Leu	Arg	Thr	His	Asp	Gly	Gln	Phe	Thr	Ile	Met	Gln
				725					730					735	
Leu	Val	Gly	Met	Leu	Arg	Gly	Val	Gly	Ala	Gly	Met	Arg	Tyr	Leu	Ser
			740					745					750		
Asp	Leu	Gly	Tyr	Val	His	Arg	Asp	Leu	Ala	Ala	Arg	Asn	Val	Leu	Val
		755					760					765			
Asp	Ser	Asn	Leu	Val	Cys	Lys	Val	Ser	Asp	Phe	Gly	Leu	Ser	Arg	Val
	770					775					780				
Leu	Glu	Asp	Asp	Pro	Asp	Ala	Ala	Tyr	Thr	Thr	Thr	Gly	Gly	Lys	Ile
785					790					795					800
Pro	Ile	Arg	Trp	Thr	Ala	Pro	Glu	Ala	Ile	Ala	Phe	Arg	Thr	Phe	Ser
				805					810					815	
Ser	Ala	Ser	Asp	Val	Trp	Ser	Phe	Gly	Val	Val	Met	Trp	Glu	Val	Leu
			820					825					830		
Ala	Tyr	Gly	Glu	Arg	Pro	Tyr	Trp	Asn	Met	Thr	Asn	Arg	Asp	Val	Ile
		835					840					845			
Ser	Ser	Val	Glu	Glu	Gly	Tyr	Arg	Leu	Pro	Ala	Pro	Met	Gly	Cys	Pro
	850					855					860				
His	Ala	Leu	His	Gln	Leu	Met	Leu	Asp	Cys	Trp	His	Lys	Asp	Arg	Ala
865					870					875					880
Gln	Arg	Pro	Arg	Phe	Ser	Gln	Ile	Val	Ser	Val	Leu	Asp	Ala	Leu	Ile
				885					890					895	
Arg	Ser	Pro	Glu	Ser	Leu	Arg	Ala	Thr	Ala	Thr	Val	Ser	Arg	Cys	Pro
			900					905					910		
Pro	Pro	Ala	Phe	Val	Arg	Ser	Cys	Phe	Asp	Leu	Arg	Gly	Gly	Ser	Gly
		915					920					925			
Gly	Gly	Gly	Gly	Leu	Thr	Val	Gly	Asp	Trp	Leu	Asp	Ser	Ile	Arg	Met
	930					935					940				
Gly	Arg	Tyr	Arg	Asp	His	Phe	Ala	Ala	Gly	Gly	Tyr	Ser	Ser	Leu	Gly
945					950					955					960
Met	Val	Leu	Arg	Met	Asn	Ala	Gln	Asp	Val	Arg	Ala	Leu	Gly	Ile	Thr
				965					970					975	
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			980					985					990		

<210> 54

<211> 450
 <212> PRT
 <213> Mus musculus

<400> 54

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Ala Ala Ala Ala Ala Thr Cys Val Ser Ala Gly Arg Gly Glu Val Asn
      20              25              30

Leu Leu Asp Thr Ser Thr Ile His Gly Asp Trp Gly Trp Leu Thr Tyr
      35              40              45

Pro Ala His Gly Trp Asp Ser Ile Asn Glu Val Asp Glu Ser Phe Arg
      50              55              60

Pro Ile His Thr Tyr Gln Val Cys Asn Val Met Ser Pro Asn Gln Asn
      65              70              75              80

Asn Trp Leu Arg Thr Asn Trp Val Pro Arg Asp Gly Ala Arg Arg Val
      85              90              95

Tyr Ala Glu Ile Lys Phe Thr Leu Arg Asp Cys Asn Ser Ile Pro Gly
      100             105             110

Val Leu Gly Thr Cys Lys Glu Thr Phe Asn Leu His Tyr Leu Glu Ser
      115             120             125

Asp Arg Asp Leu Gly Ala Ser Thr Gln Glu Ser Gln Phe Leu Lys Ile
      130             135             140

Asp Thr Ile Ala Ala Asp Glu Ser Phe Thr Gly Ala Asp Leu Gly Val
      145             150             155             160

Arg Arg Leu Lys Leu Asn Thr Glu Val Arg Gly Val Gly Pro Leu Ser
      165             170             175

Lys Arg Gly Phe Tyr Leu Ala Phe Gln Asp Ile Gly Ala Cys Leu Ala
      180             185             190

Ile Leu Ser Leu Arg Ile Tyr Tyr Lys Lys Cys Pro Ala Met Val Arg
      195             200             205

Asn Leu Ala Ala Phe Ser Glu Ala Val Thr Gly Ala Asp Ser Ser Ser
      210             215             220

Leu Val Glu Val Arg Gly Gln Cys Val Arg His Ser Glu Glu Arg Asp
      225             230             235             240

Thr Pro Lys Met Tyr Cys Ser Ala Glu Gly Glu Trp Leu Val Pro Ile
      245             250             255

Gly Lys Cys Val Cys Ser Ala Gly Tyr Glu Glu Arg Arg Asp Ala Cys
      260             265             270

Met Ala Cys Glu Leu Gly Phe Tyr Lys Ser Ala Pro Gly Asp Gln Leu

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275		280		285											
Cys	Ala	Arg	Cys	Pro	Pro	His	Ser	His	Ser	Ala	Thr	Pro	Ala	Ala	Gln
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Thr	Cys	Arg	Cys	Asp	Leu	Ser	Tyr	Tyr	Arg	Ala	Ala	Leu	Asp	Pro	Pro
305					310					315					320
Ser	Ala	Ala	Cys	Thr	Arg	Pro	Pro	Ser	Ala	Pro	Val	Asn	Leu	Ile	Ser
				325					330					335	
Ser	Val	Asn	Gly	Thr	Ser	Val	Thr	Leu	Glu	Trp	Ala	Pro	Pro	Leu	Asp
			340					345					350		
Pro	Gly	Gly	Arg	Ser	Asp	Ile	Thr	Tyr	Asn	Ala	Val	Cys	Arg	Arg	Cys
		355					360					365			
Pro	Trp	Ala	Leu	Ser	His	Cys	Glu	Ala	Cys	Gly	Ser	Gly	Thr	Arg	Phe
	370					375						380			
Val	Pro	Gln	Gln	Thr	Ser	Leu	Ala	Gln	Ala	Ser	Leu	Leu	Val	Ala	Asn
385					390					395					400
Leu	Leu	Ala	His	Met	Asn	Tyr	Ser	Phe	Trp	Ile	Glu	Ala	Val	Asn	Gly
			405						410					415	
Val	Ser	Asn	Leu	Ser	Pro	Glu	Pro	Arg	Ser	Ala	Ala	Val	Val	Asn	Ile
			420					425					430		
Thr	Thr	Asn	Gln	Ala	Ala	Pro	Ser	Gln	Val	Val	Val	Ile	Arg	Gln	Glu
		435					440					445			
Arg	Ala														
	450														

<210> 55
 <211> 480
 <212> PRT
 <213> Homo sapiens

<400> 55
Met Arg Gly Ser Gly Pro Arg Gly Ala Gly His Arg Arg Pro Pro Ser
1 5 10 15
Gly Gly Gly Asp Thr Pro Ile Thr Pro Ala Ser Leu Ala Gly Cys Tyr
20 25 30
Ser Ala Pro Arg Arg Ala Pro Leu Trp Thr Cys Leu Leu Leu Cys Ala
35 40 45
Ala Leu Arg Thr Leu Leu Ala Ser Pro Ser Asn Glu Val Asn Leu Leu
50 55 60
Asp Ser Arg Thr Val Met Gly Asp Leu Gly Trp Ile Ala Phe Pro Lys
65 70 75 80

Asn	Gly	Trp	Glu	Glu	Ile	Gly	Glu	Val	Asp	Glu	Asn	Tyr	Ala	Pro	Ile	
				85					90					95		
His	Thr	Tyr	Gln	Val	Cys	Lys	Val	Met	Glu	Gln	Asn	Gln	Asn	Asn	Trp	
			100					105					110			
Leu	Leu	Thr	Ser	Trp	Ile	Ser	Asn	Glu	Gly	Ala	Ser	Arg	Ile	Phe	Ile	
		115					120					125				
Glu	Leu	Lys	Phe	Thr	Leu	Arg	Asp	Cys	Asn	Ser	Leu	Pro	Gly	Gly	Leu	
	130					135					140					
Gly	Thr	Cys	Lys	Glu	Thr	Phe	Asn	Met	Tyr	Tyr	Phe	Glu	Ser	Asp	Asp	
145					150					155					160	
Gln	Asn	Gly	Arg	Asn	Ile	Lys	Glu	Asn	Gln	Tyr	Ile	Lys	Ile	Asp	Thr	
				165					170					175		
Ile	Ala	Ala	Asp	Glu	Ser	Phe	Thr	Glu	Leu	Asp	Leu	Gly	Asp	Arg	Val	
			180					185					190			
Met	Lys	Leu	Asn	Thr	Glu	Val	Arg	Asp	Val	Gly	Pro	Leu	Ser	Lys	Lys	
		195					200					205				
Gly	Phe	Tyr	Leu	Ala	Phe	Gln	Asp	Val	Gly	Ala	Cys	Ile	Ala	Leu	Val	
	210					215					220					
Ser	Val	Arg	Val	Tyr	Tyr	Lys	Lys	Cys	Pro	Ser	Val	Val	Arg	His	Leu	
225					230					235					240	
Ala	Val	Phe	Pro	Asp	Thr	Ile	Thr	Gly	Ala	Asp	Ser	Ser	Gln	Leu	Leu	
				245					250					255		
Glu	Val	Ser	Gly	Ser	Cys	Val	Asn	His	Ser	Val	Thr	Asp	Glu	Pro	Pro	
			260					265					270			
Lys	Met	His	Cys	Ser	Ala	Glu	Gly	Glu	Trp	Leu	Val	Pro	Ile	Gly	Lys	
		275					280					285				
Cys	Met	Cys	Lys	Ala	Gly	Tyr	Glu	Glu	Lys	Asn	Gly	Thr	Cys	Gln	Val	
	290					295					300					
Cys	Arg	Pro	Gly	Phe	Phe	Lys	Ala	Ser	Pro	His	Ile	Gln	Ser	Cys	Gly	
305					310					315					320	
Lys	Cys	Pro	Pro	His	Ser	Tyr	Thr	His	Glu	Glu	Ala	Ser	Thr	Ser	Cys	
				325					330					335		
Val	Cys	Glu	Lys	Asp	Tyr	Phe	Arg	Arg	Glu	Ser	Asp	Pro	Pro	Thr	Met	
			340					345					350			
Ala	Cys	Thr	Arg	Pro	Pro	Ser	Ala	Pro	Arg	Asn	Ala	Ile	Ser	Asn	Val	
		355					360					365				
Asn	Glu	Thr	Ser	Val	Phe	Leu	Glu	Trp	Ile	Pro	Pro	Ala	Asp	Thr	Gly	
	370					375					380					

Gly Arg Lys Asp Val Ser Tyr Tyr Ile Ala Cys Lys Lys Cys Asn Ser
 385 390 395 400
 His Ala Gly Val Cys Glu Glu Cys Gly Gly His Val Arg Tyr Leu Pro
 405 410 415
 Arg Gln Ser Gly Leu Lys Asn Thr Ser Val Met Met Val Asp Leu Leu
 420 425 430
 Ala His Thr Asn Tyr Thr Phe Glu Ile Glu Ala Val Asn Gly Val Ser
 435 440 445
 Asp Leu Ser Pro Gly Ala Arg Gln Tyr Val Ser Val Asn Val Thr Thr
 450 455 460
 Asn Gln Ala Ala Pro Ser Pro Val Thr Asn Val Lys Lys Gly Lys Ile
 465 470 475 480

<210> 56
 <211> 456
 <212> PRT
 <213> Gallus gallus

<400> 56
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 Trp Thr Cys Leu Leu Leu Cys Ala Ala Leu Arg Ser Leu Leu Ala Ser
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 Pro Gly Ser Glu Val Asn Leu Leu Asp Ser Arg Thr Val Met Gly Asp
 35 40 45
 Leu Gly Trp Ile Ala Tyr Pro Lys Asn Gly Trp Glu Glu Ile Gly Glu
 50 55 60
 Val Asp Glu Asn Tyr Ala Pro Ile His Thr Tyr Gln Val Cys Lys Val
 65 70 75 80
 Met Glu Gln Asn Gln Asn Asn Trp Leu Leu Thr Ser Trp Ile Ser Asn
 85 90 95
 Glu Gly Arg Pro Ala Ser Ser Phe Glu Leu Lys Phe Thr Leu Arg Asp
 100 105 110
 Cys Asn Ser Leu Pro Gly Gly Leu Gly Thr Cys Lys Glu Thr Phe Asn
 115 120 125
 Met Tyr Tyr Phe Glu Ser Asp Asp Glu Asp Gly Arg Asn Ile Arg Glu
 130 135 140
 Asn Gln Tyr Ile Lys Ile Asp Thr Ile Ala Ala Asp Glu Ser Phe Thr
 145 150 155 160

Glu Leu Asp Leu Gly Asp Arg Val Met Lys Leu Asn Thr Glu Val Arg
 165 170 175
 Asp Val Gly Pro Leu Thr Lys Lys Gly Phe Tyr Leu Ala Phe Gln Asp
 180 185 190
 Val Gly Ala Cys Ile Ala Leu Val Ser Val Arg Val Tyr Tyr Lys Lys
 195 200 205
 Cys Pro Ser Val Ile Arg Asn Leu Ala Arg Phe Pro Asp Thr Ile Thr
 210 215 220
 Gly Ala Asp Ser Ser Gln Leu Leu Glu Val Ser Gly Val Cys Val Asn
 225 230 235 240
 His Ser Val Thr Asp Glu Ala Pro Lys Met His Cys Ser Ala Glu Gly
 245 250 255
 Glu Trp Leu Val Pro Ile Gly Lys Cys Leu Cys Lys Ala Gly Tyr Glu
 260 265 270
 Glu Lys Asn Asn Thr Cys Gln Val Cys Arg Pro Gly Phe Phe Lys Ala
 275 280 285
 Ser Pro His Ser Pro Ser Cys Ser Lys Cys Pro Pro His Ser Tyr Thr
 290 295 300
 Leu Asp Glu Ala Ser Thr Ser Cys Leu Cys Glu Glu His Tyr Phe Arg
 305 310 315 320
 Arg Glu Ser Asp Pro Pro Thr Met Ala Cys Thr Arg Pro Pro Ser Ala
 325 330 335
 Pro Arg Ser Ala Ile Ser Asn Val Asn Glu Thr Ser Val Phe Leu Glu
 340 345 350
 Trp Ile Pro Pro Ala Asp Thr Gly Gly Arg Lys Asp Val Ser Tyr Tyr
 355 360 365
 Ile Ala Cys Lys Lys Cys Asn Ser His Ser Gly Leu Cys Glu Ala Cys
 370 375 380
 Gly Ser His Val Arg Tyr Leu Pro Gln Gln Thr Gly Leu Lys Asn Thr
 385 390 395 400
 Ser Val Met Met Val Asp Leu Leu Ala His Thr Asn Tyr Thr Phe Glu
 405 410 415
 Ile Glu Ala Val Asn Gly Val Ser Asp Gln Asn Pro Gly Ala Arg Gln
 420 425 430
 Phe Val Ser Val Asn Val Thr Thr Asn Gln Ala Ala Pro Ser Pro Val
 435 440 445
 Ser Ser Val Lys Lys Gly Lys Ile
 450 455

<210> 57
 <211> 649
 <212> PRT
 <213> Homo sapiens

<400> 57

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Met Ile Ser Ala Ala Trp Ser Ile Phe Leu Ile Gly Thr Lys Ile Gly
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Leu Phe Leu Gln Val Ala Pro Leu Ser Val Met Ala Lys Ser Cys Pro
      20             25             30

Ser Val Cys Arg Cys Asp Ala Gly Phe Ile Tyr Cys Asn Asp Arg Phe
      35             40             45

Leu Thr Ser Ile Pro Thr Gly Ile Pro Glu Asp Ala Thr Thr Leu Tyr
  50             55             60

Leu Gln Asn Asn Gln Ile Asn Asn Ala Gly Ile Pro Ser Asp Leu Lys
  65             70             75             80

Asn Leu Leu Lys Val Glu Arg Ile Tyr Leu Tyr His Asn Ser Leu Asp
      85             90             95

Glu Phe Pro Thr Asn Leu Pro Lys Tyr Val Lys Glu Leu His Leu Gln
      100            105            110

Glu Asn Asn Ile Arg Thr Ile Thr Tyr Asp Ser Leu Ser Lys Ile Pro
      115            120            125

Tyr Leu Glu Glu Leu His Leu Asp Asp Asn Ser Val Ser Ala Val Ser
      130            135            140

Ile Glu Glu Gly Ala Phe Arg Asp Ser Asn Tyr Leu Arg Leu Leu Phe
      145            150            155            160

Leu Ser Arg Asn His Leu Ser Thr Ile Pro Trp Gly Leu Pro Arg Thr
      165            170            175

Ile Glu Glu Leu Arg Leu Asp Asp Asn Arg Ile Ser Thr Ile Ser Ser
      180            185            190

Pro Ser Leu Gln Gly Leu Thr Ser Leu Lys Arg Leu Val Leu Asp Gly
      195            200            205

Asn Leu Leu Asn Asn His Gly Leu Gly Asp Lys Val Phe Phe Asn Leu
      210            215            220

Val Asn Leu Thr Glu Leu Ser Leu Val Arg Asn Ser Leu Thr Ala Ala
      225            230            235            240

Pro Val Asn Leu Pro Gly Thr Asn Leu Arg Lys Leu Tyr Leu Gln Asp
      245            250            255

Asn His Ile Asn Arg Val Pro Pro Asn Ala Phe Ser Tyr Leu Arg Gln
  
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260										265										270																																			
Leu	Tyr	Arg	Leu	Asp	Met	Ser	Asn	Asn	Asn	Leu	Ser	Asn	Leu	Pro	Gln																																								
			275					280					285																																										
Gly	Ile	Phe	Asp	Asp	Leu	Asp	Asn	Ile	Thr	Gln	Leu	Ile	Leu	Arg	Asn																																								
	290					295					300																																												
Asn	Pro	Trp	Tyr	Cys	Gly	Cys	Lys	Met	Lys	Trp	Val	Arg	Asp	Trp	Leu																																								
305					310					315					320																																								
Gln	Ser	Leu	Pro	Val	Lys	Val	Asn	Val	Arg	Gly	Leu	Met	Cys	Gln	Ala																																								
				325					330					335																																									
Pro	Glu	Lys	Val	Arg	Gly	Met	Ala	Ile	Lys	Asp	Leu	Asn	Ala	Glu	Leu																																								
			340					345					350																																										
Phe	Asp	Cys	Lys	Asp	Ser	Gly	Ile	Val	Ser	Thr	Ile	Gln	Ile	Thr	Thr																																								
	355					360						365																																											
Ala	Ile	Pro	Asn	Thr	Val	Tyr	Pro	Ala	Gln	Gly	Gln	Trp	Pro	Ala	Pro																																								
	370				375					380																																													
Val	Thr	Lys	Gln	Pro	Asp	Ile	Lys	Asn	Pro	Lys	Leu	Thr	Lys	Asp	His																																								
385					390					395					400																																								
Gln	Thr	Thr	Gly	Ser	Pro	Ser	Arg	Lys	Thr	Ile	Thr	Ile	Thr	Val	Lys																																								
			405					410					415																																										
Ser	Val	Thr	Ser	Asp	Thr	Ile	His	Ile	Ser	Trp	Lys	Leu	Ala	Leu	Pro																																								
			420				425					430																																											
Met	Thr	Ala	Leu	Arg	Leu	Ser	Trp	Leu	Lys	Leu	Gly	His	Ser	Pro	Ala																																								
	435					440					445																																												
Phe	Gly	Ser	Ile	Thr	Glu	Thr	Ile	Val	Thr	Gly	Glu	Arg	Ser	Glu	Tyr																																								
	450				455					460																																													
Leu	Val	Thr	Ala	Leu	Glu	Pro	Asp	Ser	Pro	Tyr	Lys	Val	Cys	Met	Val																																								
465					470					475				480																																									
Pro	Met	Glu	Thr	Ser	Asn	Leu	Tyr	Leu	Phe	Asp	Glu	Thr	Pro	Val	Cys																																								
			485					490					495																																										
Ile	Glu	Thr	Glu	Thr	Ala	Pro	Leu	Arg	Met	Tyr	Asn	Pro	Thr	Thr	Thr																																								
			500					505					510																																										
Leu	Asn	Arg	Glu	Gln	Glu	Lys	Glu	Pro	Tyr	Lys	Asn	Pro	Asn	Leu	Pro																																								
	515						520					525																																											
Leu	Ala	Ala	Ile	Ile	Gly	Gly	Ala	Val	Ala	Leu	Val	Thr	Ile	Ala	Leu																																								
	530				535					540																																													
Leu	Ala	Leu	Val	Cys	Trp	Tyr	Val	His	Arg	Asn	Gly	Ser	Leu	Phe	Ser																																								
545					550					555				560																																									
Arg	Asn	Cys	Ala	Tyr	Ser	Lys	Gly	Arg	Arg	Arg	Lys	Asp	Asp	Tyr	Ala																																								

					565						570						575
Glu	Ala	Gly	Thr	Lys	Lys	Asp	Asn	Ser	Ile	Leu	Glu	Ile	Arg	Glu	Thr		
			580					585					590				
Ser	Phe	Gln	Met	Leu	Pro	Ile	Ser	Asn	Glu	Pro	Ile	Ser	Lys	Glu	Glu		
		595					600					605					
Phe	Val	Ile	His	Thr	Ile	Phe	Pro	Pro	Asn	Gly	Met	Asn	Leu	Tyr	Lys		
	610					615					620						
Asn	Asn	His	Ser	Glu	Ser	Ser	Ser	Asn	Arg	Ser	Tyr	Arg	Asp	Ser	Gly		
625					630					635					640		
Ile	Pro	Asp	Ser	Asp	His	Ser	His	Ser									
				645													

<210> 58
 <211> 660
 <212> PRT
 <213> Homo sapiens

<400> 58

Met	Gly	Leu	Gln	Thr	Thr	Lys	Trp	Pro	Ser	His	Gly	Ala	Phe	Phe	Leu
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Lys	Ser	Trp	Leu	Ile	Ile	Ser	Leu	Gly	Leu	Tyr	Ser	Gln	Val	Ser	Lys
			20					25					30		
Leu	Leu	Ala	Cys	Pro	Ser	Val	Cys	Arg	Cys	Asp	Arg	Asn	Phe	Val	Tyr
		35					40					45			
Cys	Asn	Glu	Arg	Ser	Leu	Thr	Ser	Val	Pro	Leu	Gly	Ile	Pro	Glu	Gly
	50					55					60				
Val	Thr	Val	Leu	Tyr	Leu	His	Asn	Asn	Gln	Ile	Asn	Asn	Ala	Gly	Phe
65					70					75					80
Pro	Ala	Glu	Leu	His	Asn	Val	Gln	Ser	Val	His	Thr	Val	Tyr	Leu	Tyr
				85				90						95	
Gly	Asn	Gln	Leu	Asp	Glu	Phe	Pro	Met	Asn	Leu	Pro	Lys	Asn	Val	Arg
			100					105					110		
Val	Leu	His	Leu	Gln	Glu	Asn	Asn	Ile	Gln	Thr	Ile	Ser	Arg	Ala	Ala
		115					120					125			
Leu	Ala	Gln	Leu	Leu	Lys	Leu	Glu	Glu	Leu	His	Leu	Asp	Asp	Asn	Ser
	130					135					140				
Ile	Ser	Thr	Val	Gly	Val	Glu	Asp	Gly	Ala	Phe	Arg	Glu	Ala	Ile	Ser
145					150					155					160
Leu	Lys	Leu	Leu	Phe	Leu	Ser	Lys	Asn	His	Leu	Ser	Ser	Val	Pro	Val
				165					170					175	

Gly	Leu	Pro	Val	Asp	Leu	Gln	Glu	Leu	Arg	Val	Asp	Glu	Asn	Arg	Ile	180	185	190	
Ala	Val	Ile	Ser	Asp	Met	Ala	Phe	Gln	Asn	Leu	Thr	Ser	Leu	Glu	Arg	195	200	205	
Leu	Ile	Val	Asp	Gly	Asn	Leu	Leu	Thr	Asn	Lys	Gly	Ile	Ala	Glu	Gly	210	215	220	
Thr	Phe	Ser	His	Leu	Thr	Lys	Leu	Lys	Glu	Phe	Ser	Ile	Val	Arg	Asn	225	230	235	240
Ser	Leu	Ser	His	Pro	Pro	Pro	Asp	Leu	Pro	Gly	Thr	His	Leu	Ile	Arg	245	250	255	
Leu	Tyr	Leu	Gln	Asp	Asn	Gln	Ile	Asn	His	Ile	Pro	Leu	Thr	Ala	Phe	260	265	270	
Ser	Asn	Leu	Arg	Lys	Leu	Glu	Arg	Leu	Asp	Ile	Ser	Asn	Asn	Gln	Leu	275	280	285	
Arg	Met	Leu	Thr	Gln	Gly	Val	Phe	Asp	Asn	Leu	Ser	Asn	Leu	Lys	Gln	290	295	300	
Leu	Thr	Ala	Arg	Asn	Asn	Pro	Trp	Phe	Cys	Asp	Cys	Ser	Ile	Lys	Trp	305	310	315	320
Val	Thr	Glu	Trp	Leu	Lys	Tyr	Ile	Pro	Ser	Ser	Leu	Asn	Val	Arg	Gly	325	330	335	
Phe	Met	Cys	Gln	Gly	Pro	Glu	Gln	Val	Arg	Gly	Met	Ala	Val	Arg	Glu	340	345	350	
Leu	Asn	Met	Asn	Leu	Leu	Ser	Cys	Pro	Thr	Thr	Thr	Pro	Gly	Leu	Pro	355	360	365	
Leu	Phe	Thr	Pro	Ala	Pro	Ser	Thr	Ala	Ser	Pro	Thr	Thr	Gln	Pro	Pro	370	375	380	
Thr	Leu	Ser	Ile	Pro	Asn	Pro	Ser	Arg	Ser	Tyr	Thr	Pro	Pro	Thr	Pro	385	390	395	400
Thr	Thr	Ser	Lys	Leu	Pro	Thr	Ile	Pro	Asp	Trp	Asp	Gly	Arg	Glu	Arg	405	410	415	
Val	Thr	Pro	Pro	Ile	Ser	Glu	Arg	Ile	Gln	Leu	Ser	Ile	His	Phe	Val	420	425	430	
Asn	Asp	Thr	Ser	Ile	Gln	Val	Ser	Trp	Leu	Ser	Leu	Phe	Thr	Val	Met	435	440	445	
Ala	Tyr	Lys	Leu	Thr	Trp	Val	Lys	Met	Gly	His	Ser	Leu	Val	Gly	Gly	450	455	460	
Ile	Val	Gln	Glu	Arg	Ile	Val	Ser	Gly	Glu	Lys	Gln	His	Leu	Ser	Leu	465	470	475	480

Asp	Asp	Ala	Thr	Thr	Leu	Tyr	Leu	Gln	Asn	Asn	Gln	Ile	Asn	Asn	Ala	
				85					90					95		
Gly	Ile	Pro	Gln	Asp	Leu	Lys	Thr	Lys	Val	Asn	Val	Gln	Val	Ile	Tyr	
			100					105					110			
Leu	Tyr	Glu	Asn	Asp	Leu	Asp	Glu	Phe	Pro	Ile	Asn	Leu	Pro	Arg	Ser	
		115					120					125				
Leu	Arg	Glu	Leu	His	Leu	Gln	Asp	Asn	Asn	Val	Arg	Thr	Ile	Ala	Arg	
	130					135					140					
Asp	Ser	Leu	Ala	Arg	Ile	Pro	Leu	Leu	Glu	Lys	Leu	His	Leu	Asp	Asp	
145					150					155					160	
Asn	Ser	Val	Ser	Thr	Val	Ser	Ile	Glu	Glu	Asp	Ala	Phe	Ala	Asp	Ser	
				165					170					175		
Lys	Gln	Leu	Lys	Leu	Leu	Phe	Leu	Ser	Arg	Asn	His	Leu	Ser	Ser	Ile	
			180					185					190			
Pro	Ser	Gly	Leu	Pro	His	Thr	Leu	Glu	Glu	Leu	Arg	Leu	Asp	Asp	Asn	
		195					200					205				
Arg	Ile	Ser	Thr	Ile	Pro	Leu	His	Ala	Phe	Lys	Gly	Leu	Asn	Ser	Leu	
	210					215					220					
Arg	Arg	Leu	Val	Leu	Asp	Gly	Asn	Leu	Leu	Ala	Asn	Gln	Arg	Ile	Ala	
225					230					235					240	
Asp	Asp	Thr	Phe	Ser	Arg	Leu	Gln	Asn	Leu	Thr	Glu	Leu	Ser	Leu	Val	
				245					250					255		
Arg	Asn	Ser	Leu	Ala	Ala	Pro	Pro	Leu	Asn	Leu	Pro	Ser	Ala	His	Leu	
			260					265					270			
Gln	Lys	Leu	Tyr	Leu	Gln	Asp	Asn	Ala	Ile	Ser	His	Ile	Pro	Tyr	Asn	
		275					280					285				
Thr	Leu	Ala	Lys	Met	Arg	Glu	Leu	Glu	Arg	Leu	Asp	Leu	Ser	Asn	Asn	
	290					295					300					
Asn	Leu	Thr	Thr	Leu	Pro	Arg	Gly	Leu	Phe	Asp	Asp	Leu	Gly	Asn	Leu	
305					310					315					320	
Ala	Gln	Leu	Leu	Leu	Arg	Asn	Asn	Pro	Trp	Phe	Cys	Gly	Cys	Asn	Leu	
				325					330					335		
Met	Trp	Leu	Arg	Asp	Trp	Val	Lys	Ala	Arg	Ala	Ala	Val	Val	Asn	Val	
		340						345					350			
Arg	Gly	Leu	Met	Cys	Gln	Gly	Pro	Glu	Lys	Val	Arg	Gly	Met	Ala	Ile	
		355					360					365				
Lys	Asp	Ile	Thr	Ser	Glu	Met	Asp	Glu	Cys	Phe	Glu	Thr	Gly	Pro	Gln	
	370					375					380					

Gly Gly Val Ala Asn Ala Ala Ala Lys Thr Thr Ala Ser Asn His Ala
 385 390 395 400
 Ser Ala Thr Thr Pro Gln Gly Ser Leu Phe Thr Leu Lys Ala Lys Arg
 405 410 415
 Pro Gly Leu Arg Leu Pro Asp Ser Asn Ile Asp Tyr Pro Met Ala Thr
 420 425 430
 Gly Asp Gly Ala Lys Thr Leu Ala Ile His Val Lys Ala Leu Thr Ala
 435 440 445
 Asp Ser Ile Arg Ile Thr Trp Lys Ala Thr Leu Pro Ala Ser Ser Phe
 450 455 460
 Arg Leu Ser Trp Leu Arg Leu Gly His Ser Pro Ala Val Gly Ser Ile
 465 470 475 480
 Thr Glu Thr Leu Val Gln Gly Asp Lys Thr Glu Tyr Leu Leu Thr Ala
 485 490 495
 Leu Glu Pro Lys Ser Thr Tyr Ile Ile Cys Met Val Thr Met Glu Thr
 500 505 510
 Ser Asn Ala Tyr Val Ala Asp Glu Thr Pro Val Cys Ala Lys Ala Glu
 515 520 525
 Thr Ala Asp Ser Tyr Gly Pro Thr Thr Thr Leu Asn Gln Glu Gln Asn
 530 535 540
 Ala Gly Pro Met Ala Ser Leu Pro Leu Ala Gly Ile Ile Gly Gly Ala
 545 550 555 560
 Val Ala Leu Val Phe Leu Phe Leu Val Leu Gly Ala Ile Cys Trp Tyr
 565 570 575
 Val His Gln Ala Gly Glu Leu Leu Thr Arg Glu Arg Ala Tyr Asn Arg
 580 585 590
 Gly Ser Arg Glu Lys Asp Asp Tyr Met Glu Ser Gly Thr Lys Lys Asp
 595 600 605
 Asn Ser Ile Leu Glu Ile Arg Gly Pro Gly Leu Gln Met Leu Pro Ile
 610 615 620
 Asn Pro Tyr Arg Ala Lys Glu Glu Tyr Val Val His Thr Ile Phe Pro
 625 630 635 640
 Ser Asn Gly Ser Ser Leu Cys Lys Ala Thr His Thr Ile Gly Tyr Gly
 645 650 655
 Thr Thr Arg Gly Tyr Arg Asp Gly Gly Ile Pro Asp Ile Asp Tyr Ser
 660 665 670
 Tyr Thr

<210> 60
 <211> 674
 <212> PRT
 <213> Homo sapiens

<400> 60
 Met Val Val Ala His Pro Thr Ala Thr Ala Thr Thr Thr Pro Thr Ala
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 Thr Val Thr Ala Thr Val Val Met Thr Thr Ala Thr Met Asp Leu Arg
 20 25 30
 Asp Trp Leu Phe Leu Cys Tyr Gly Leu Ile Ala Phe Leu Thr Glu Val
 35 40 45
 Ile Asp Ser Thr Thr Cys Pro Ser Val Cys Arg Cys Asp Asn Gly Phe
 50 55 60
 Ile Tyr Cys Asn Asp Arg Gly Leu Thr Ser Ile Pro Ala Asp Ile Pro
 65 70 75 80
 Asp Asp Ala Thr Thr Leu Tyr Leu Gln Asn Asn Gln Ile Asn Asn Ala
 85 90 95
 Gly Ile Pro Gln Asp Leu Lys Thr Lys Val Asn Val Gln Val Ile Tyr
 100 105 110
 Leu Tyr Glu Asn Asp Leu Asp Glu Phe Pro Ile Asn Leu Pro Arg Ser
 115 120 125
 Leu Arg Glu Leu His Leu Gln Asp Asn Asn Val Arg Thr Ile Ala Arg
 130 135 140
 Asp Ser Leu Ala Arg Ile Pro Leu Leu Glu Lys Leu His Leu Asp Asp
 145 150 155 160
 Asn Ser Val Ser Thr Val Ser Ile Glu Glu Asp Ala Phe Ala Asp Ser
 165 170 175
 Lys Gln Leu Lys Leu Leu Phe Leu Ser Arg Asn His Leu Ser Ser Ile
 180 185 190
 Pro Ser Gly Leu Pro His Thr Leu Glu Glu Leu Arg Leu Asp Asp Asn
 195 200 205
 Arg Ile Ser Thr Ile Pro Leu His Ala Phe Lys Gly Leu Asn Ser Leu
 210 215 220
 Arg Arg Leu Val Leu Asp Gly Asn Leu Leu Ala Asn Gln Arg Ile Ala
 225 230 235 240
 Asp Asp Thr Phe Ser Arg Leu Gln Asn Leu Thr Glu Leu Ser Leu Val
 245 250 255
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Leu	Glu	Pro	Lys	Ser	Thr	Tyr	Ile	Ile	Cys	Met	Val	Thr	Met	Glu	Thr				
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 Thr Lys Lys Asp Asn Ser Ile Leu Glu Ile Arg Gly Pro Gly Leu Gln
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 <212> PRT
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<400> 63
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Cys Asn Ser Met Pro Gly Val Leu Gly Thr Cys Lys Glu Thr Phe Asn	85	90	95
Leu Tyr Tyr Leu Glu Ser Asp Arg Asp Leu Gly Ala Ser Thr Gln Glu	100	105	110
Ser Gln Phe Leu Lys Ile Asp Thr Ile Ala Ala Asp Glu Ser Phe Thr	115	120	125
Gly Ala Asp Leu Gly Val Arg Arg Leu Lys Leu Asn Thr Glu Val Arg	130	135	140
Ser Val Gly Pro Leu Ser Lys Arg Gly Phe Tyr Leu Ala Phe Gln Asp	145	150	155
Ile Gly Ala Cys Leu Ala Ile Leu Ser Leu Arg Ile Tyr Tyr Lys Lys	165	170	175
Cys Pro Ala Met Val Arg Asn Leu Ala Ala Phe Ser Glu Ala Val Thr	180	185	190
Gly Ala Asp Ser Ser Ser Leu Val Glu Val Arg Gly Gln Cys Val Arg	195	200	205
His Ser Glu Glu Arg Asp Thr Pro Lys Met Tyr Cys Ser Ala Glu Gly	210	215	220
Glu Trp Leu Val Pro Ile Gly Lys Cys Val Cys Ser Ala Gly Tyr Glu	225	230	235
Glu Arg Arg Asp Ala Cys Val Ala Cys Glu Leu Gly Phe Tyr Lys Ser	245	250	255
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gaggagctgc ggttgatga caaccgcatc tccaccatcc cgctgcatgc cttcaagggc 660
ctcaacagcc tgccggcgcc ggtgctggac ggtaacctgc tggccaacca gcgcatcgcc 720
gacgacacct tcagccgcct acagaacctc acagagctct cgctgggtgc caattcgctg 780
gccgcgccac cctctacct gcaggacaat gccatcagcc acatccccta caacacgctg 840
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cgccggcctgt tcgacgacct ggggaacctg gcccagctgc tgctcaggaa caacccttgg 960
ttttgtggct gcaacctcat gtggctgcgg gactgggtga aggcacgggc ggccgtgggtc 1020
aacgtgcggg gcctcatgtg ccagggccct gagaagggtc ggggcatggc catcaaggac 1080
attaccagcg aggtggagag tgttttgaga cgggcgcgcg agggcggcgt ggccaatgcg 1140
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gagaccagca atgcctacgt agctgatgag acaccctgtg gtgccaaggc agagacagcc 1560
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aaccggggca gcaggaaaaa ggatgactat atggagtcag ggaccaagaa ggataactcc 1800
atcctggaaa tccgcggccc tgggctgcag atgctgccc tcaaccgta ccgcgcaaaa 1860
gaagagtacg tggtcacac tatcttcccc tccaacggca gcagcctctg caaggccaca 1920
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tactcctaca ca
1992

```

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<210> 68
<211> 664
<212> PRT
<213> Homo sapiens

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<400> 68
Met Val Val Ala His Pro Thr Ala Thr Ala Thr Thr Thr Pro Thr Ala
  1                      5                      10                      15

Thr Val Thr Ala Thr Val Val Met Thr Thr Ala Thr Met Asp Leu Arg
          20                      25                      30

Asp Trp Leu Phe Leu Cys Tyr Gly Leu Ile Ala Phe Leu Thr Glu Val
          35                      40                      45

Ile Asp Ser Thr Thr Cys Pro Ser Val Cys Arg Cys Asp Asn Gly Phe
          50                      55                      60

Ile Tyr Cys Asn Asp Arg Gly Leu Thr Ser Ile Pro Ala Asp Ile Pro
          65                      70                      75                      80

Asp Asp Ala Thr Thr Leu Tyr Leu Gln Asn Asn Gln Ile Asn Asn Ala
          85                      90                      95

Gly Ile Pro Gln Asp Leu Lys Thr Lys Val Asn Val Gln Val Ile Tyr
          100                      105                      110

Leu Tyr Glu Asn Asp Leu Asp Glu Phe Pro Ile Asn Leu Pro Arg Ser
          115                      120                      125

```

Leu Arg Glu Leu His Leu Gln Asp Asn Asn Val Arg Thr Ile Ala Arg
 130 135 140
 Asp Ser Leu Ala Arg Ile Pro Leu Leu Glu Lys Leu His Leu Asp Asp
 145 150 155 160
 Asn Ser Val Ser Thr Val Ser Ile Glu Glu Asp Ala Phe Ala Asp Ser
 165 170 175
 Lys Gln Leu Lys Leu Leu Phe Leu Ser Arg Asn His Leu Ser Ser Ile
 180 185 190
 Pro Ser Gly Leu Pro His Thr Leu Glu Glu Leu Arg Leu Asp Asp Asn
 195 200 205
 Arg Ile Ser Thr Ile Pro Leu His Ala Phe Lys Gly Leu Asn Ser Leu
 210 215 220
 Arg Arg Leu Val Leu Asp Gly Asn Leu Leu Ala Asn Gln Arg Ile Ala
 225 230 235 240
 Asp Asp Thr Phe Ser Arg Leu Gln Asn Leu Thr Glu Leu Ser Leu Val
 245 250 255
 Arg Asn Ser Leu Ala Ala Pro Pro Leu Tyr Leu Gln Asp Asn Ala Ile
 260 265 270
 Ser His Ile Pro Tyr Asn Thr Leu Ala Lys Met Arg Glu Leu Glu Arg
 275 280 285
 Leu Asp Leu Ser Asn Asn Asn Leu Thr Thr Leu Pro Arg Gly Leu Phe
 290 295 300
 Asp Asp Leu Gly Asn Leu Ala Gln Leu Leu Leu Arg Asn Asn Pro Trp
 305 310 315 320
 Phe Cys Gly Cys Asn Leu Met Trp Leu Arg Asp Trp Val Lys Ala Arg
 325 330 335
 Ala Ala Val Val Asn Val Arg Gly Leu Met Cys Gln Gly Pro Glu Lys
 340 345 350
 Val Arg Gly Met Ala Ile Lys Asp Ile Thr Ser Glu Val Glu Ser Val
 355 360 365
 Leu Arg Arg Ala Pro Gln Gly Gly Val Ala Asn Ala Ala Ala Lys Thr
 370 375 380
 Thr Ala Ser Asn His Ala Ser Ala Thr Thr Pro Gln Gly Ser Leu Phe
 385 390 395 400
 Thr Leu Lys Ala Lys Arg Pro Gly Leu Arg Leu Pro Asp Ser Asn Ile
 405 410 415
 Asp Tyr Pro Met Ala Thr Gly Asp Gly Ala Lys Thr Leu Ala Ile His
 420 425 430

Val Lys Ala Leu Thr Ala Asp Ser Ile Arg Ile Thr Trp Lys Ala Thr
 435 440 445
 Leu Pro Ala Ser Ser Phe Arg Leu Ser Trp Leu Arg Leu Gly His Ser
 450 455 460
 Pro Ala Val Gly Ser Ile Thr Glu Thr Leu Val Gln Gly Asp Lys Thr
 465 470 475 480
 Glu Tyr Leu Leu Thr Ala Leu Glu Pro Lys Ser Thr Tyr Ile Ile Cys
 485 490 495
 Met Val Thr Met Glu Thr Ser Asn Ala Tyr Val Ala Asp Glu Thr Pro
 500 505 510
 Val Cys Ala Lys Ala Glu Thr Ala Asp Ser Tyr Gly Pro Thr Thr Thr
 515 520 525
 Leu Asn Gln Glu Gln Asn Ala Gly Pro Met Ala Ser Leu Pro Leu Ala
 530 535 540
 Gly Ile Ile Gly Gly Ala Val Ala Leu Val Phe Leu Phe Leu Val Leu
 545 550 555 560
 Gly Ala Ile Cys Trp Tyr Val His Gln Ala Gly Glu Leu Leu Thr Arg
 565 570 575
 Glu Arg Ala Tyr Asn Arg Gly Ser Arg Lys Lys Asp Asp Tyr Met Glu
 580 585 590
 Ser Gly Thr Lys Lys Asp Asn Ser Ile Leu Glu Ile Arg Gly Pro Gly
 595 600 605
 Leu Gln Met Leu Pro Ile Asn Pro Tyr Arg Ala Lys Glu Glu Tyr Val
 610 615 620
 Val His Thr Ile Phe Pro Ser Asn Gly Ser Ser Leu Cys Lys Ala Thr
 625 630 635 640
 His Thr Ile Gly Tyr Gly Thr Thr Arg Gly Tyr Arg Asp Gly Gly Ile
 645 650 655
 Pro Asp Ile Asp Tyr Ser Tyr Thr
 660

<210> 69
 <211> 26
 <212> DNA
 <213> Homo sapiens

<400> 69
 caacgtgcag gtcattctacc tatacgt

26

<210> 70
 <211> 25

<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:oligonucleotide
primer

<400> 70
gcccgtctca aaacactctc catct

25

<210> 71
<211> 54
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:oligonucleotide
primer

<400> 71
Asn Pro Phe Asn Cys Asp Cys Glu Leu Arg Trp Leu Leu Arg Trp Leu
1 5 10 15
Arg Glu Thr Asn Pro Arg Arg Leu Glu Asp Gln Glu Asp Leu Arg Cys
20 25 30
Ala Ser Pro Glu Ser Leu Arg Gly Gln Pro Leu Leu Glu Leu Leu Pro
35 40 45
Ser Asp Phe Ser Cys Pro
50

<210> 72
<211> 84
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:consensus
sequence

<400> 72
Pro Ser Ala Pro Thr Asn Leu Thr Val Thr Asp Val Thr Ser Thr Ser
1 5 10 15
Leu Thr Leu Ser Trp Ser Pro Pro Thr Gly Asn Gly Pro Ile Thr Gly
20 25 30
Tyr Glu Val Thr Tyr Arg Gln Pro Lys Asn Gly Gly Glu Trp Asn Glu
35 40 45
Leu Thr Val Pro Gly Thr Thr Thr Ser Tyr Thr Leu Thr Gly Leu Lys
50 55 60
Pro Gly Thr Glu Tyr Glu Val Arg Val Gln Ala Val Asn Gly Gly Gly

450					455					460						
Gly	Cys	Thr	Gly	Cys	Ala	Cys	Cys	Thr	Gly	Gly	Ala	Thr	Gly	Ala	Cys	
465					470					475						480
Ala	Ala	Cys	Thr	Cys	Cys	Gly	Thr	Gly	Thr	Cys	Cys	Ala	Cys	Cys	Gly	
				485					490						495	
Thr	Cys	Ala	Gly	Cys	Ala	Thr	Thr	Gly	Ala	Gly	Gly	Ala	Gly	Gly	Ala	
			500					505						510		
Cys	Gly	Cys	Cys	Thr	Thr	Cys	Gly	Cys	Cys	Gly	Ala	Cys	Ala	Gly	Cys	
			515				520					525				
Ala	Ala	Ala	Cys	Ala	Gly	Cys	Thr	Cys	Ala	Ala	Gly	Cys	Thr	Gly	Cys	
			530				535					540				
Thr	Cys	Thr	Thr	Cys	Cys	Thr	Gly	Ala	Gly	Cys	Cys	Gly	Gly	Ala	Ala	
545							550					555			560	
Cys	Cys	Ala	Cys	Cys	Thr	Gly	Ala	Gly	Cys	Ala	Gly	Cys	Ala	Thr	Cys	
				565					570					575		
Cys	Cys	Cys	Thr	Cys	Gly	Gly	Gly	Gly	Cys	Thr	Gly	Cys	Cys	Gly	Cys	
			580					585						590		
Ala	Cys	Ala	Cys	Gly	Cys	Thr	Gly	Gly	Ala	Gly	Gly	Ala	Gly	Cys	Thr	
			595				600					605				
Gly	Cys	Gly	Gly	Cys	Thr	Gly	Gly	Ala	Thr	Gly	Ala	Cys	Ala	Ala	Cys	
							615					620				
Cys	Gly	Cys	Ala	Thr	Cys	Thr	Cys	Cys	Ala	Cys	Cys	Ala	Thr	Cys	Cys	
625							630					635			640	
Cys	Gly	Cys	Thr	Gly	Cys	Ala	Thr	Gly	Cys	Cys	Thr	Thr	Cys	Ala	Ala	
				645					650					655		
Gly	Gly	Gly	Cys	Cys	Thr	Cys	Ala	Ala	Cys	Ala	Gly	Cys	Cys	Thr	Gly	
			660					665						670		
Cys	Gly	Gly	Cys	Gly	Cys	Cys	Thr	Gly	Gly	Thr	Gly	Cys	Thr	Gly	Gly	
			675				680					685				
Ala	Cys	Gly	Gly	Thr	Ala	Ala	Cys	Cys	Thr	Gly	Cys	Thr	Gly	Gly	Cys	
				690			695					700				
Cys	Ala	Ala	Cys	Cys	Ala	Gly	Cys	Gly	Cys	Ala	Thr	Cys	Gly	Cys	Cys	
705							710					715			720	
Gly	Ala	Cys	Gly	Ala	Cys	Ala	Cys	Cys	Thr	Thr	Cys	Ala	Gly	Cys	Cys	
				725					730					735		
Gly	Cys	Cys	Thr	Ala	Cys	Ala	Gly	Ala	Ala	Cys	Cys	Thr	Cys	Ala	Cys	
			740					745					750			
Ala	Gly	Ala	Gly	Cys	Thr	Cys	Thr	Cys	Gly	Cys	Thr	Gly	Gly	Thr	Gly	

755					760					765					
Cys	Gly	Cys	Ala	Ala	Thr	Thr	Cys	Gly	Cys	Thr	Gly	Gly	Cys	Cys	Gly
	770					775					780				
Cys	Gly	Cys	Cys	Ala	Cys	Cys	Cys	Cys	Thr	Cys	Ala	Ala	Cys	Cys	Thr
785					790					795					800
Gly	Cys	Cys	Cys	Ala	Gly	Cys	Gly	Cys	Cys	Cys	Ala	Cys	Cys	Thr	Gly
				805					810					815	
Cys	Ala	Gly	Ala	Ala	Ala	Cys	Thr	Cys	Thr	Ala	Cys	Cys	Thr	Gly	Cys
			820					825					830		
Ala	Gly	Gly	Ala	Cys	Ala	Ala	Thr	Gly	Cys	Cys	Ala	Thr	Cys	Ala	Gly
		835					840					845			
Cys	Cys	Ala	Cys	Ala	Thr	Cys	Cys	Cys	Cys	Thr	Ala	Cys	Ala	Ala	Cys
	850					855					860				
Ala	Cys	Gly	Cys	Thr	Gly	Gly	Cys	Cys	Ala	Ala	Gly	Ala	Thr	Gly	Cys
865					870					875					880
Gly	Thr	Gly	Ala	Gly	Cys	Thr	Gly	Gly	Ala	Gly	Cys	Gly	Gly	Cys	Thr
				885					890					895	
Gly	Gly	Ala	Cys	Cys	Thr	Gly	Thr	Cys	Cys	Ala	Ala	Cys	Ala	Ala	Cys
			900					905					910		
Ala	Ala	Cys	Cys	Thr	Gly	Ala	Cys	Cys	Ala	Cys	Gly	Cys	Thr	Gly	Cys
		915					920					925			
Cys	Cys	Cys	Gly	Cys	Gly	Gly	Cys	Cys	Thr	Gly	Thr	Thr	Cys	Gly	Ala
	930					935					940				
Cys	Gly	Ala	Cys	Cys											
945															

<210> 75

<211> 674

<212> PRT

<213> Homo sapiens

<400> 75

Met	Val	Val	Ala	His	Pro	Thr	Ala	Thr	Ala	Thr	Thr	Thr	Pro	Thr	Ala
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Thr	Val	Thr	Ala	Thr	Val	Val	Met	Thr	Thr	Ala	Thr	Met	Asp	Leu	Arg
			20					25					30		

Asp	Trp	Leu	Phe	Leu	Cys	Tyr	Gly	Leu	Ile	Ala	Phe	Leu	Thr	Glu	Val
		35					40					45			

Ile	Asp	Ser	Thr	Thr	Cys	Pro	Ser	Val	Cys	Arg	Cys	Asp	Asn	Gly	Phe
	50					55					60				

Ile	Tyr	Cys	Asn	Asp	Arg	Gly	Leu	Thr	Ser	Ile	Pro	Ala	Asp	Ile	Pro	65	70	75	80
Asp	Asp	Ala	Thr	Thr	Leu	Tyr	Leu	Gln	Asn	Asn	Gln	Ile	Asn	Asn	Ala	85	90	95	
Gly	Ile	Pro	Gln	Asp	Leu	Lys	Thr	Lys	Val	Asn	Val	Gln	Val	Ile	Tyr	100	105	110	
Leu	Tyr	Glu	Asn	Asp	Leu	Asp	Glu	Phe	Pro	Ile	Asn	Leu	Pro	Arg	Ser	115	120	125	
Leu	Arg	Glu	Leu	His	Leu	Gln	Asp	Asn	Asn	Val	Arg	Thr	Ile	Ala	Arg	130	135	140	
Asp	Ser	Leu	Ala	Arg	Ile	Pro	Leu	Leu	Glu	Lys	Leu	His	Leu	Asp	Asp	145	150	155	160
Asn	Ser	Val	Ser	Thr	Val	Ser	Ile	Glu	Glu	Asp	Ala	Phe	Ala	Asp	Ser	165	170	175	
Lys	Gln	Leu	Lys	Leu	Leu	Phe	Leu	Ser	Arg	Asn	His	Leu	Ser	Ser	Ile	180	185	190	
Pro	Ser	Gly	Leu	Pro	His	Thr	Leu	Glu	Glu	Leu	Arg	Leu	Asp	Asp	Asn	195	200	205	
Arg	Ile	Ser	Thr	Ile	Pro	Leu	His	Ala	Phe	Lys	Gly	Leu	Asn	Ser	Leu	210	215	220	
Arg	Arg	Leu	Val	Leu	Asp	Gly	Asn	Leu	Leu	Ala	Asn	Gln	Arg	Ile	Ala	225	230	235	240
Asp	Asp	Thr	Phe	Ser	Arg	Leu	Gln	Asn	Leu	Thr	Glu	Leu	Ser	Leu	Val	245	250	255	
Arg	Asn	Ser	Leu	Ala	Ala	Pro	Pro	Leu	Asn	Leu	Pro	Ser	Ala	His	Leu	260	265	270	
Gln	Lys	Leu	Tyr	Leu	Gln	Asp	Asn	Ala	Ile	Ser	His	Ile	Pro	Tyr	Asn	275	280	285	
Thr	Leu	Ala	Lys	Met	Arg	Glu	Leu	Glu	Arg	Leu	Asp	Leu	Ser	Asn	Asn	290	295	300	
Asn	Leu	Thr	Thr	Leu	Pro	Arg	Gly	Leu	Phe	Asp	Asp	Leu	Gly	Asn	Leu	305	310	315	320
Ala	Gln	Leu	Leu	Leu	Arg	Asn	Asn	Pro	Trp	Phe	Cys	Gly	Cys	Asn	Leu	325	330	335	
Met	Trp	Leu	Arg	Asp	Trp	Val	Lys	Ala	Arg	Ala	Ala	Val	Val	Asn	Val	340	345	350	
Arg	Gly	Leu	Met	Cys	Gln	Gly	Pro	Glu	Lys	Val	Arg	Gly	Met	Ala	Ile	355	360	365	

Lys Asp Ile Thr Ser Glu Met Asp Glu Cys Phe Glu Thr Gly Pro Gln
 370 375 380
 Gly Gly Val Ala Asn Ala Ala Ala Lys Thr Thr Ala Ser Asn His Ala
 385 390 395 400
 Ser Ala Thr Thr Pro Gln Gly Ser Leu Phe Thr Leu Lys Ala Lys Arg
 405 410 415
 Pro Gly Leu Arg Leu Pro Asp Ser Asn Ile Asp Tyr Pro Met Ala Thr
 420 425 430
 Gly Asp Gly Ala Lys Thr Leu Ala Ile His Val Lys Ala Leu Thr Ala
 435 440 445
 Asp Ser Ile Arg Ile Thr Trp Lys Ala Thr Leu Pro Ala Ser Ser Phe
 450 455 460
 Arg Leu Ser Trp Leu Arg Leu Gly His Ser Pro Ala Val Gly Ser Ile
 465 470 475 480
 Thr Glu Thr Leu Val Gln Gly Asp Lys Thr Glu Tyr Leu Leu Thr Ala
 485 490 495
 Leu Glu Pro Lys Ser Thr Tyr Ile Ile Cys Met Val Thr Met Glu Thr
 500 505 510
 Ser Asn Ala Tyr Val Ala Asp Glu Thr Pro Val Cys Ala Lys Ala Glu
 515 520 525
 Thr Ala Asp Ser Tyr Gly Pro Thr Thr Thr Leu Asn Gln Glu Gln Asn
 530 535 540
 Ala Gly Pro Met Ala Ser Leu Pro Leu Ala Gly Ile Ile Gly Gly Ala
 545 550 555 560
 Val Ala Leu Val Phe Leu Phe Leu Val Leu Gly Ala Ile Cys Trp Tyr
 565 570 575
 Val His Gln Ala Gly Glu Leu Leu Thr Arg Glu Arg Ala Tyr Asn Arg
 580 585 590
 Gly Ser Arg Glu Lys Asp Asp Tyr Met Glu Ser Gly Thr Lys Lys Asp
 595 600 605
 Asn Ser Ile Leu Glu Ile Arg Gly Pro Gly Leu Gln Met Leu Pro Ile
 610 615 620
 Asn Pro Tyr Arg Ala Lys Glu Glu Tyr Val Val His Thr Ile Phe Pro
 625 630 635 640
 Ser Asn Gly Ser Ser Leu Cys Lys Ala Thr His Thr Ile Gly Tyr Gly
 645 650 655
 Thr Thr Arg Gly Tyr Arg Asp Gly Gly Ile Pro Asp Ile Asp Tyr Ser
 660 665 670

Tyr Thr

<210> 76
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:consensus
sequence

<400> 76
Ala Cys Pro Arg Glu Cys Thr Cys Ser Pro Phe Gly Leu Val Val Asp
1 5 10 15
Cys Ser Gly Arg Gly Leu Thr Leu Glu Val Pro Arg Asp Leu Pro
20 25 30

<210> 77
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:consensus
sequence

<400> 77
Asn Leu Glu Glu Leu Asp Leu Ser Asn Asn Leu Thr Ser Leu Pro Pro
1 5 10 15
Gly Leu Phe Ser Asn Leu Pro
20

<210> 78
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:consensus
sequence

<400> 78
Asn Leu Glu Glu Leu Asp Leu Ser Asn Asn Leu Thr Ser Leu Pro Pro
1 5 10 15
Gly Leu Phe Ser Asn Leu Pro
20

<210> 79
<211> 23

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:consensus
sequence

<400> 79
Asn Leu Glu Glu Leu Asp Leu Ser Asn Asn Leu Thr Ser Leu Pro Pro
1 5 10 15

Gly Leu Phe Ser Asn Leu Pro
20

<210> 80
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:consensus
sequence

<400> 80
Asn Leu Glu Glu Leu Asp Leu Ser Asn Asn Leu Thr Ser Leu Pro Pro
1 5 10 15

Gly Leu Phe Ser Asn Leu Pro
20

<210> 81
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:consensus
sequence

<400> 81
Asn Leu Glu Glu Leu Asp Leu Ser Asn Asn Leu Thr Ser Leu Pro Pro
1 5 10 15

Gly Leu Phe Ser Asn Leu Pro
20

<210> 82
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:consensus
sequence

<400> 82

Asn Leu Glu Glu Leu Asp Leu Ser Asn Asn Leu Thr Ser Leu Pro Pro
1 5 10 15

Gly Leu Phe Ser Asn Leu Pro
20

<210> 83

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:consensus
sequence

<400> 83

Asn Leu Glu Glu Leu Asp Leu Ser Asn Asn Leu Thr Ser Leu Pro Pro
1 5 10 15

Gly Leu Phe Ser Asn Leu Pro
20

<210> 84

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:consensus
sequence

<400> 84

Asn Leu Glu Glu Leu Asp Leu Ser Asn Asn Leu Thr Ser Leu Pro Pro
1 5 10 15

Gly Leu Phe Ser Asn Leu Pro
20